



## NOTES

- ⊗ FOR WELDING DETAILS SEE "CONNECTION STIFFENER DETAILS" ON STANDARD 24.2 MINIMUM PLATE SIZE SHOWN. DESIGN ACTUAL SIZE REQUIRED.
- STIFFENERS AND BEARING PLATES ARE ALL PERPENDICULAR TO FLANGES, ANGLES ARE PARALLEL TO FLANGES.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.

## DESIGNER NOTES

- ▲ THE 125 mm OPENING BETWEEN GIRDER WEB AND FLANGE PLATES IS FOR FABRICATION ACTUAL OPENING IS BASED ON EXPANSION LENGTH AND TEMPERATURE.
- SLOTTED HOLES OF 150 mm IN THE FLANGES AND CONNECTING BARS WILL ACCOMMODATE A TOTAL TEMPERATURE MOVEMENT OF 200 mm ( $\pm$  100 mm FROM 7° C). THE DESIGNER MAY NEED TO INCREASE OR DECREASE THE LENGTH OF THE SLOT TO MEET SPECIFIC JOB REQUIREMENTS.
- ★ CROSS FRAME UNDER BRG. AND END STIFFENER IS ONLY REQ'D. IF TOTAL WEB HEIGHT EXCEEDS 2500 mm.
- SEE BRIDGE MANUAL, SECTION 24.1 FOR CRITERIA FOR LOCATING HINGE JOINTS.

## EXPANSION HINGE JOINT DETAILS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DEVELOPMENT SECTION

APPROVED: \_\_\_\_\_ DATE: 1/99